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(b) said sonic compression wave impulses, superposed on said shear

induced viscoelastic material, modify non-metallic material substructure

morphology; and

(c) said substructure morphology modification be applied to selectively

alter mechanical and physical properties of said non-metallic workpiece.

Amendments to the Abstract of the Disclosure

Please amend the third sentence in paragraph 0035 as follows:

Waveguides and resonators may be applied for impedance matching and

coincidence of wave modes in the workpiece.

Amendments to the Drawings:

Figures 1 through 3 in the application document are <u>unchanged</u>. The attached

new figure 4 is added to exhibit the feature of resonance.

REMARKS/ ARGUMENTS

Specification Amendments

Paragraph [0003] amendments qualify lens characteristics to encompass

both transmitting and reflecting features. Paragraph [0004] amendments include

the principle of resonance and editorial clarification of context. Paragraph [0005]

amendments are editorial clarification of context. The paragraph [0009] addition

of the word "arc" specifies the referenced welding process. Paragraph [0014]

amendments incorporate the principle of resonance and accompanying context

features. The paragraph [0019] amendment is a grammatical correction. The

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new paragraph [0020.1] added after paragraph [0020] supports the new figure 4 illustration of resonance features. Paragraph [0021] amendments support the addition of figure 4 and add the missing reference to the term "fuse"; a key process in the Claims.

Paragraph [0022] and Abstract of Disclosure paragraph [0035] amendments support the principle of resonance.

Claims Amendments

Revised Claims paragraphs [0033.1] through [0033.8] are amendments replacing the application document. List of Claims to include the principle of **resonance** and to editorially distinguish between:

- i) A multi-element sonic <u>apparatus</u> which is adaptable to a wide range of applications, and
- ii) <u>Methods</u> of sonic welding, forming, bonding, and substructure modification of both metals and non-metals.

The undersigned applicant respectfully requests the issuance of a Notice of Allowance for this case and stands ready to assist in the amendment process.

Respectfully submitted,

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